

## Appendix F

SUMMARY OF MAJOR ONGOING EPA-FUNDED PROJECTS FOR  
NITROGEN DEPOSITION ECOLOGICAL EFFECTS VALUATION

Project	Affiliated EPA Office	General Information	URL
Chesapeake Bay Program	Office of Water, and Office of Air Quality Planning and Standards	<ul style="list-style-type: none"> <li>The objectives of the Chesapeake Bay Program include collecting information regarding the Bay's environmental quality, and determining appropriate measures to improve the Bay and protect it's multiple resources.</li> <li>Development of a nitrogen loading model at Chesapeake Bay that may be applied to estuaries nationwide is currently a subject of research under EPA's Great Waters Program. This program is also examining the potential for developing comprehensive integrated models to assess ecological and economic impacts.</li> </ul>	<a href="http://www.epa.gov/r3c/hespk/">http://www.epa.gov/r3c/hespk/</a>  <a href="http://www.chesapeakebay.net/">http://www.chesapeakebay.net/</a>
Waquoit Bay Watershed Ecological Risk Assessment	National Center for Environmental Assessment (NCEA), Office of Water, and Office of Research and Development	<ul style="list-style-type: none"> <li>The Waquoit Bay Ecological Risk Assessment intends to predict how changes in land use and human activity in the watershed will impact eelgrass growth in order to enable resource managers to make decisions based on more information.</li> <li>Nitrogen deposition is one of the key stressors being evaluated. Specifically, the risk analysis focuses on the relationship between nutrient enrichment and loss of eelgrass habitat, and the resulting effects on scallop abundance in the Bay.</li> </ul>	<a href="http://cfpub.epa.gov/ncea/cfm/waquoit.cfm?ActType=default">http://cfpub.epa.gov/ncea/cfm/waquoit.cfm?ActType=default</a>
Tampa Bay Atmospheric Deposition Study	Office of Water	<ul style="list-style-type: none"> <li>EPA's Great Waters Program and the Tampa Bay Estuary Program are partnering with local environmental agencies to develop a nitrogen loading model for the Bay including examination of the contribution of atmospheric deposition to eutrophication. This model will then be used to develop a cost-benefit study of management options. The Estuary Program anticipates that this loading model will be complete by September of 2003.</li> </ul>	<a href="http://www.tbep.org/tbep.html">http://www.tbep.org/tbep.html</a>  <a href="http://www.epa.gov/projectxl/tampa/">http://www.epa.gov/projectxl/tampa/</a>  <a href="http://www.hsc.usf.edu/publichealth/EOH/BRA CE/TBADS.htm">http://www.hsc.usf.edu/publichealth/EOH/BRA CE/TBADS.htm</a>

Project	Affiliated EPA Office	General Information	URL
Albemarle-Pimlico National Estuary Program (APNEP)	Office of Water	<ul style="list-style-type: none"> <li>Ongoing research under the APNEP's Comprehensive Conservation and Management Plan addresses multiple water quality and habitat issues within the Estuary. In the past, a review of economic models was conducted to help determine the value of recreational fishing, and measure the impact of increasing the quality of fisheries in the Estuary. This review was applied to a cost-benefit study of the Program's management plan.</li> </ul>	<a href="http://www.epa.gov/owow/estuaries/programs/apns.htm">http://www.epa.gov/owow/estuaries/programs/apns.htm</a>  <a href="http://h2o.enr.state.nc.us/nep/">http://h2o.enr.state.nc.us/nep/</a>
Casco Bay National Estuary Program (CBNEP)	Office of Water, and the National Center for Environmental Economics (NCEE)	<ul style="list-style-type: none"> <li>The Casco Bay Air Toxics Deposition Monitoring Program is an ongoing study at the Bay that models seasonal and annual deposition of airborne toxics, including nitrogen.</li> <li>NCEE has completed an economic profile of the Estuary and determined that the health of the Estuary has a substantial effect on tourism and recreation revenues.</li> </ul>	<a href="http://www.epa.gov/owow/estuaries/programs/cb.htm">http://www.epa.gov/owow/estuaries/programs/cb.htm</a>
Sarasota Bay National Estuary Program (SBNEP)	Office of Water	<ul style="list-style-type: none"> <li>A main focus of the SBNEP is reduction of nitrogen deposition in the Bay. A nitrogen loading model has been developed to determine the impact of atmospheric deposition. This information was used to target management objectives and evaluate the impact of nitrogen reductions on Bay resources.</li> <li>Ongoing research at the Mote Marine Laboratory focuses on the effects of atmospheric nitrogen deposition at the Bay on algal assemblages.</li> </ul>	<a href="http://www.sarasotabay.org/">http://www.sarasotabay.org/</a>
Social and Ecological Transferability of Integrated Ecological Assessment Models	National Center for Environmental Research	<ul style="list-style-type: none"> <li>This project is designed to benefit urban/suburban coastal communities interested in protecting estuarine ecosystems from nitrogen loading. The main objective is to build an integrated assessment model using an existing watershed N-loading model and extend an estuarine ecological model to include a new and socially important management endpoint - fish and shellfish. A unique aspect of this project is the opportunity to use data collected to test the ecological transferability of the model as a treatment in the social experiment by involving citizens in data collection.</li> <li>This research will result in an integrated ecological model of the consequences of coastal land-use change on estuarine systems and, perhaps more importantly, better information on how to apply that model in new environmental and social settings.</li> </ul>	<a href="http://cfpub.epa.gov/nceer_abstracts/index.cfm/fullsection/display.abstractDetail/abstract/847/report/0">http://cfpub.epa.gov/nceer_abstracts/index.cfm/fullsection/display.abstractDetail/abstract/847/report/0</a>

## Appendix G

### PARTIAL LITERATURE REVIEW TO SUPPORT CHARACTERIZATION OF ECONOMIC VALUE OF ECOLOGICAL EFFECTS

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